

IN THE CLAIMS

Please amend the claims as set forth below:

5 Claim 1. (Amended) An adjustable intraocular lens system for an individual's eye, said intraocular lens system comprising:

10 a. a primary intraocular lens having an optic with an optical axis, a peripheral edge, an anterior surface and a posterior surface, said preliminary intraocular lens optic having a primary optical power, said primary intraocular lens having a thin, narrow slit formed in and through the primary intraocular lens optic generally tangential to the anterior surface of said optic and closely adjacent the peripheral edge of said ~~the primary intraocular lens~~ optic, and having attachment means fixed to said ~~primary intraocular lens~~ optic for maintaining said ~~primary intraocular lens optic~~ optical axis centered along the optical axis of an individual's eye; and

25 b. a secondary intraocular lens having an optic with an anterior surface and a posterior surface, said optic having a secondary optical power and having ~~an~~ a narrow attachment tab extending generally radially outwardly from a peripheral edge of the secondary intraocular lens optic, said attachment tab being sized to penetrate generally radially the primary intraocular lens optic slit with the secondary intraocular lens optic posterior surface

laying against the primary intraocular lens optic anterior surface, whereby said secondary intraocular lens optic power provides optical power correction to the primary intraocular lens optic power.

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Claim 2. (Cancelled) The adjustable intraocular lens system as claimed in Claim 1, wherein said primary intraocular lens slit is formed through said primary
10 intraocular lens optic.

Claim 3. (Cancelled) The adjustable intraocular lens system as claimed in Claim 1, wherein a plurality of slits are formed in regions of said primary intraocular lens
15 adjacent said primary intraocular optic peripheral edge.

Claim 4. (Original) The adjustable intraocular lens system as claimed in Claim 1, wherein said secondary intraocular lens optic has a plurality of attachment tabs
20 extending radially from said secondary intraocular lens optic in locations enabling penetration of a selected one of said tabs into said primary intraocular lens slit.

Claim 5. (Original) The adjustable intraocular lens
25 system as claimed in Claim 1, wherein said tab radially extending from said secondary intraocular lens optic is wedge-shaped, being tapered in thickness toward a free end of the tab, so as to facilitate insertion of said tab into said primary intraocular lens slit.

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Claim 6. (Cancelled) The adjustable intraocular lens system as claimed in Claim 1, wherein said primary intraocular lens optic is formed having a tab extending

generally radially from the optic edge, said slit being formed in said primary intraocular lens optic tab.

5 Claim 7. (Cancelled) The adjustable intraocular lens system as claimed in Claim 1, wherein said primary intraocular slit is formed in said attachment means adjacent said primary intraocular lens optic peripheral edge.

10 Claim 8. (Original) The adjustable intraocular lens system as claimed in Claim 1, wherein said secondary intraocular lens optic has a central thickness between about 0.1 mm and about 0.4 mm.

15 Claim 9. (Amended) An adjustable intraocular lens system for an individual's eye, said intraocular lens system comprising:

- 20 a. a primary intraocular lens having an optic with an optical axis, a peripheral edge, an anterior surface and a posterior surface, said preliminary intraocular lens optic having a primary optical power, said primary intraocular lens having a ~~plurality of thin narrow slits~~ slit formed in and through the primary intraocular lens outside said optic and closely adjacent the peripheral edge of the optic, and having attachment means fixed to said ~~primary intraocular lens~~ ~~optic~~ for maintaining said ~~primary intraocular lens~~ optic optical axis centered along the optical axis of an individual's eye; and
- 25 30 b. a secondary intraocular lens having an optic with an anterior surface and a posterior surface, said secondary intraocular lens optic

having a secondary optical power and having a ~~plurality~~ a narrow attachment ~~tab~~ tab extending ~~generally~~ radially outwardly and continuous with ~~from~~ said secondary intraocular lens optic from a peripheral edge thereof, said attachment ~~tab~~ tab being sized and located to penetrate generally radially the primary intraocular lens ~~slits~~ slit with the secondary intraocular lens optic posterior surface laying against the primary intraocular lens optic anterior surface, whereby said secondary intraocular lens optic power provides optical power correction to the primary intraocular lens optic power.

Claim 10. (Cancelled) The adjustable intraocular lens system as claimed in Claim 9, wherein said primary intraocular lens slits are formed through said primary intraocular lens optic.

Claim 11. (Amended) The adjustable intraocular lens system as claimed in Claim 9, wherein said ~~plurality of tabs~~ tab radially extending from said secondary intraocular lens optic ~~are~~ is wedge-shaped, ~~each~~ said tab being tapered in thickness toward a free end of the tab, so as to facilitate insertion of said tab into ~~a corresponding one of~~ said primary intraocular lens ~~slits~~ slit.

Claim 12. (Amended) The adjustable intraocular lens system as claimed in Claim 9, wherein said primary intraocular lens optic is formed having a ~~plurality of tabs~~ tab extending generally radially from the optic edge, said

~~slit~~ slit being formed in said primary intraocular lens optic ~~tab~~ tab.

5 Claim 13. (Cancelled) The adjustable intraocular lens system as claimed in Claim 9, wherein said primary intraocular lens slits are angled inwardly from said primary intraocular lens optic anterior surface and radially outwardly from said optical edge.

10 Claim 14. (Amended) The adjustable intraocular lens system as claimed in Claim 9, including ~~wherein the plurality of primary intraocular lens slits comprises~~ two peripherally spaced-apart primary intraocular lens slits and including ~~wherein said plurality of secondary intraocular~~
15 ~~optic tabs includes~~ at least two secondary intraocular optic tabs located such that said tabs can be individually inserted into said two primary intraocular lens slits, whereby orientation of the secondary intraocular lens relative to the primary intraocular lens can be selected to
20 provide required power adjustment.

Claim 15. (Cancelled) The adjustable intraocular lens system as claimed in Claim 9, wherein the plurality of secondary intraocular lens tabs comprises two peripherally
25 spaced-apart tabs and wherein said plurality of primary intraocular slits includes at least two slits located such that said two secondary intraocular lens tabs can be individually inserted into said primary intraocular lens slits, whereby orientation of the secondary intraocular lens
30 relative to the primary intraocular lens can be selected to provide required power adjustment.

Claim 16. (Amended) The adjustable intraocular lens system as claimed in Claim 9, wherein ~~each of said plurality of primary intraocular lens slits have~~ slit has a slit height of between about 0.1 mm and about 0.25 mm.

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Claim 17. (Amended) The adjustable intraocular lens system as claimed in Claim 9, wherein ~~each of said plurality of secondary intraocular lens optic tabs~~ tab has a small hole formed at a base thereof whereby an instrument can be inserted into said hole to assist the installation of a tab into a primary intraocular lens slit.

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Claim 18. (Original) The adjustable intraocular lens system as claimed in Claim 9, wherein said secondary intraocular lens optic has a central thickness between about 0.1 mm and about 0.4 mm.

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Claim 19. (Original) The adjustable intraocular lens system as claimed in Claim 9 wherein said primary intraocular lens comprises a dual optic intraocular lens.

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Claim 20. (Original) The adjustable intraocular lens system as claimed in Claim 9 wherein a curvature of said secondary intraocular lens optic posterior surface matches a curvature of the primary intraocular lens optic anterior surface,

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Claim 21. (Amended) A secondary intraocular lens which comprises an optic with an anterior surface, a posterior surface and a peripheral edge, said secondary intraocular lens optic having a secondary optical power and having an attachment tab extending generally radially from, and continuous with, the optic peripheral edge, said tab

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being wedge-shaped, tapering in thickness toward a free end thereof, said optic having a central thickness between about 0.1mm and about 0.4 mm.

5 Claim 22. (Original) The secondary intraocular lens as claimed in Claim 21 wherein said secondary intraocular lens optic is formed having a plurality of attachment tabs extending generally radially from the optic peripheral edge.

10 Claim 23. (Original) The secondary intraocular lens as claimed in Claim 21 wherein said secondary optic is formed from an elastically-deformable, biocompatible material.

15 Claim 24. (Original) The secondary intraocular lens as claimed in Claim 23 wherein said biocompatible material is selected from the group consisting of silicone and acrylic materials.

20 Claim 25. (Original) The secondary intraocular lens as claimed in Claim 21 wherein said attachment tab has a small positioning hole formed in a base region thereof.

25 Claim 26. (Original) The secondary intraocular lens as claimed in Claim 21 wherein said secondary optical power includes a spherical dioptric power between about -3 and about +3, a cylinder dioptric power between about -5 and about +5 and an add dioptric power between about 0.0 and about +4.

30 Claim 27. (Amended) A primary intraocular lens which comprises:

- a. an optic with an optical axis, a peripheral edge, an anterior surface and a posterior surface, said preliminary intraocular lens optic having a primary optical power, said primary intraocular lens having at least one [a] slit formed in and through the primary intraocular lens optic adjacent the peripheral edge of said ~~primary intraocular lens~~ optic; and
- b. attachment means fixed to said primary intraocular lens optic for maintaining said primary intraocular lens optic optical axis centered along the optical axis of an individual's eye.

Claim 28. (Amended) The primary intraocular lens as claimed in Claim 27 wherein ~~a plurality of slits are formed adjacent the peripheral edge of said primary intraocular lens optic~~ said primary optical power includes a spherical dioptric power between about -10 and about +35, a cylinder dioptric power between about -10 and about +10 and an add dioptric power between about 0.0 and about +4, and an accommodating range dioptric power between about 0.0 and about +4 and wherein said slit has a slit height of between about 0.1 mm and about 0.25 mm and has an arc length between about 5 degrees and about 80 degrees.

Claim 29. (Amended) The primary intraocular lens as claimed in Claim 27 wherein said ~~slit is formed in said primary intraocular lens optic~~ primary intraocular lens comprises a dual optic intraocular lens.

Claim 30. (Amended) ~~The primary intraocular lens as claimed in Claim 27 wherein said slit is formed in said attachment means adjacent the preliminary intraocular lens optic peripheral edge~~ A primary intraocular lens which

5 comprises:

- a. an optic with an optical axis, a peripheral edge, an anterior surface and a posterior surface, said preliminary intraocular lens optic having a primary optical power, said
10 primary intraocular lens having at least one slit formed outside the primary intraocular lens optic and adjacent the peripheral edge of said optic; and
- b. attachment means fixed to said primary
15 intraocular lens optic for maintaining said primary intraocular lens optic optical axis centered along the optical axis of an individual's eye.

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Claim 31. (Amended) The primary intraocular lens as claimed in Claim ~~27~~ 30 wherein said preliminary intraocular lens optic is formed having ~~a~~ at least one tab radially extending from said peripheral edge thereof, said at least
25 one slit being formed in said at least one tab.

Claim 32. (Amended) The primary intraocular lens as claimed in Claim ~~27~~ 30 wherein said at least one slit is formed in said attachment means adjacent the preliminary
30 intraocular lens optic peripheral edge ~~at an angle, being slanted inwardly from said primary intraocular lens optic anterior surface and radially outwardly.~~

Claim 33. (Original) The primary intraocular lens as claimed in Claim ~~27~~ 30 wherein said primary optical power includes a spherical dioptric power between about -10 and about +35, a cylinder dioptric power between about -10 and about +10 and an add dioptric power between about 0.0 and about +4, and an accommodating range dioptric power between about 0.0 and about +4.

Claim 34. (Amended) The primary intraocular lens as claimed in Claim ~~27~~ 30 wherein said primary intraocular lens comprises a dual optic intraocular lens.

Claim 35. (Amended) The primary intraocular lens as claimed in Claim ~~27~~ 30 wherein said slit has a slit height of between about 0.1 mm and about 0.25 mm and has an arc length between about 5 degrees and about 80 degrees.

Claim 36. (Original) A method for modifying the optical characteristics of a primary intraocular lens previously implanted in a patient's eye, the primary intraocular lens having a primary optic with a narrow slit formed adjacent a periphery of said primary optic, and having a primary optical power, said method comprising the steps of:

- a. forming a thin, elastically deformable secondary optic having a diameter substantially equal to a primary optic diameter at said primary optic slit, and having a secondary optical power and an insertion tab extending radially outward from a secondary optic peripheral edge;
- b. making a small, ocular incision in a patient's eye;
- c. inserting said secondary optic into said patient's eye through said ocular incision with

the secondary optic posterior surface laying on a primary optic anterior surface so as to combine the secondary optical power with the primary optical power;

- 5 d. positioning the secondary optic until said secondary optic tab is adjacent a entrance of said primary intraocular lens slit; and
- e. inserting said secondary optic tab into said primary intraocular lens slit.

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Claim 37. (Original) The method as claimed in Claim 36, wherein said previously implanted primary intraocular lens is formed having a plurality of said slits arranged in a first pattern around the peripheral edge of the primary optic and in proximity thereto, and wherein the step of forming
15 said secondary optic includes forming the secondary optic to have a plurality of said insertion tabs extending radially outward from the secondary optic peripheral edge in a second pattern that is compatible with said primary intraocular lens
20 first pattern of slits.

Claim 38. (Original) The method as claimed in Claim 37, wherein the step of positioning the secondary optic includes positioning the secondary optic in a desired
25 orientation relative to said primary optic so as to provide an optimum optical power combination of the primary and secondary optics, and wherein the step of positioning the secondary optic until said secondary optic tab is adjacent a entrance of said primary optic slit includes positioning
30 the secondary optic until at least two of the secondary optic tabs are adjacent corresponding primary intraocular lens slits and then inserting said at least two secondary optic tabs into said corresponding primary intraocular lens

slits.

Claim 39. (Original) The method as claimed in Claim 36, wherein the step of forming a secondary optic includes
5 forming said radially extending insertion tab to have a wedge shape, tapering in thickness toward a free tab end.

Claim 40. (Original) The method as claimed in Claim 36, wherein said previously implanted primary intraocular
10 lens is formed as a dual optic intraocular lens.

Claim 41. (Original) A method for modifying the optical characteristics of an adjustable intraocular lens system which was previously implanted in an individual's eye and
15 comprises a primary intraocular lens to which is detachably attached a secondary intraocular lens so as to provide combined primary and secondary optical powers, the primary intraocular lens having a primary optic with a narrow slit formed adjacent a periphery of said primary optic and the
20 secondary intraocular lens having an insertion tab extending radially outward from a secondary optic peripheral edge and penetrating said primary intraocular lens slit, said method comprising the steps of:

- 25 a. making a small, ocular incision in the individual's eye;
- b. withdrawing said secondary intraocular lens insertion tab from said primary intraocular lens slit, thereby detaching said secondary intraocular lens from said primary intraocular
30 lens; and
- c. explanting said detached secondary intraocular lens from the patient's eye through said ocular

incision while leaving said primary intraocular lens implanted in the patient's eye.

Claim 42. (Original) The method for modifying the
5 optical characteristics of an adjustable intraocular lens
system as claimed in Claim 41, including the steps of
implanting, through said ocular incision, another secondary
intraocular lens in the patient's eye in place of the
explanted secondary intraocular lens, and attaching the other
10 secondary intraocular lens to the primary intraocular lens.